2. Document ID: JP 10316581 A

L1: Entry 2 of 2 File: DWPI Dec 2, 1998

DERWENT-ACC-NO: 1999-076400
DERWENT-WEEK: 200008

TITLE: Material for medical treatment comprises new peptide - used for covering injuries, promoting adhesion of bio-tissues, bone reinforcing and nerve regeneration

PATENT-ASSIGNEE:

ASSIGNEE	CODE
KURARAY CO LTD	KURS

PRIORITY-DATA: 1997JP-0140885 (May 15, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 10316581 A	December 2, 1998		014	A61K038/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 10316581A	May 15, 1997	1997JP-0140885	

INT-CL (IPC): A61 K 38/00; A61 L 15/44; A61 L 17/00; A61 L 27/00; C07 K 7/06; C07 K 7/08

ABSTRACTED-PUB-NO: JP 10316581A
BASIC-ABSTRACT:

Material for medical treatment comprises one or more peptides of the formula XADEGJLMProQY (I), or their salts, immobilised on a substrate: X = H, CH3CO or CH3COLys; A = Ser or Thr; D = Ile, Val or Leu; E = Lys or Arg; G = Ile, Val or Leu; J = Gly or Ala; L = Ile, Val or Leu; M = Gly or Ala; Q = Gly, Ala or Gly-Lys-Lys-Gly; Y = OH or NH2 or one of 7 peptides of 6-23 amino acids (given in specification) or their salts.

Also claimed are: (1) (I); (2) one of 7 peptides of from 9-12 amino acids or salts; and (3) an agent for cell growth promotion and/or cell adhesion promotion containing the above peptide or its salt as the active component.

USE - The peptide and its salt can be used for covering injuries, promoting adhesion of biotissues, bone reinforcing and nerve regeneration.

EXAMPLE - The peptide of the formula: Ac-Lys-Ser-Ile-Arg-Val-Ala-Val-Ala-P- ro-Gly was synthesised using HMP resin and Fmoc-amino acids, then deprotecting the protective groups of the peptide. It was purified by a Deltapack C18 column. The purified peptide had a M.W. of 1039.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: MATERIAL MEDICAL TREAT COMPRISE NEW PEPTIDE COVER INJURY PROMOTE ADHESIVE BIO TISSUE BONE REINFORCED NERVE REGENERATE

DERWENT-CLASS: B04 P34

CPI-CODES: B04-C01; B14-J01; B14-N01; B14-N17B;

CHEMICAL-CODES:

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☐ 1. Document ID: JP 10316581 A

L1: Entry 1 of 2 File: JPAB Dec 2, 1998

PUB-NO: JP410316581A
DOCUMENT-IDENTIFIER: JP 10316581 A
TITLE: MEDICAL TREATMENT MATERIAL AND NEW PEPTIDE USED THEREFOR

PUBN-DATE: December 2, 1998

INVENTOR-INFORMATION:

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ASSIGNEE-INFORMATION:

NAME	COUNTRY
KURARAY CO LTD	

APPL-NO: JP09140885
APPL-DATE: May 15, 1997

INT-CL (IPC): A61 K 38/00; A61 L 15/44; A61 L 17/00; A61 L 27/00; C07 K 7/06; C07 K 7/08

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain the subject new peptide having a specific amino acid sequence, having actions such as a cell proliferation-stimulating action and a cell-adhering action, and capable of being fixed to substrates to use the peptide as a medical treatment material effective for the cure, adhesion, reinforcement and regeneration stimulation of biological tissues, etc.

SOLUTION: A new peptide is expressed by the formula [X is H, CH3-C(O), CH3-C(O)-Lys; A is Ser, Thr; D, G, L are each Ile, Val, Leu; E is Lys, Arg; J, M are each Gly, Ala; Q is Gly, Ala, Cly-Lys-Lys-Gly; Y is OH, NH2]. The peptide is useful as a wound-covering material, a bio-tissue adhesive, a bone- reinforcing agent, a cartilage-regenerating agent, a neurotization agent, an intractable wound-treating agent, etc. The peptide of the formula is obtained as the result of a research aiming the development of a new substance exhibiting physiological activities such as a cell proliferation-stimulating activity and a cell-adhering activity. It is found that the peptide can effectively be used for the cure of wounds, the adhesion of bio-tissues, the reinforcement of bones, the regeneration of nerves, etc.